

ENGLISH
TRANSLATION
OF INTERNATIONAL
APPLICATION AS FILED

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DESCRIPTION

BOUNDARY ACOUSTIC WAVE DEVICE

Technical Field

The present invention relates to a boundary acoustic wave device using a Stoneley wave, and more particularly, relates to a boundary acoustic wave device using a Stoneley wave and having the structure in which electrodes are disposed at a boundary between a piezoelectric substance and a dielectric substance.

Background Art

Heretofore, various surface acoustic wave devices have been used for RF and IF filters in mobile phones, resonators in VCOs, VIF filters in televisions, and the like. Surface acoustic wave devices use a surface acoustic wave, such as a Rayleigh wave or a first leaky wave, which propagates along a surface of a medium.

Since propagating along a surface of a medium, a surface acoustic wave is sensitive to the change in surface condition of the medium. Accordingly, in order to protect a surface of a medium along which a surface acoustic wave propagates, a surface acoustic wave element has been hermetic-sealed in a package in which a cavity portion is provided so as to face the wave-propagating surface. Since the package having a cavity portion as described above has been used, the cost of the surface acoustic wave device is inevitably increased. In addition, since the size of the package becomes much larger than that of the surface acoustic wave element, the size of the surface acoustic

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